



H.264 & HEVC SD/HD Internet Media Encoder/Transcoder

Small Form Factor, Big Power Leveraging CPU and GPU hybrid processing, the KulaByte Mini is the ideal product for high quality live event streaming from anywhere, giving you big power in a portable package with support for high-quality HEVC encoding and high-quality/high-density H.264 encoding.

Save Bandwidth Without Compromising Quality When streaming live events bandwidth availability becomes a major consideration. With HEVC support, you can reduce your live video bandwidth consumption from the encoder to cloud hosted transcoders by up to 35 percent, while maintaining similar quality to H.264. Simultaneous HEVC and ABR H.264 encoding is also supported for maximum flexibility and downstream interoperability.

Technology Designed for Uplink Efficiency With native SRT (Secure Reliable Transport) support, KulaByte Mini allows you to use low-cost, readily available public Internet connections to transport the highest quality, lowest latency video, from the source to KulaByte transcoders hosted in the cloud. KulaByte Mini also supports RTMP Dynamic Stream Shaping, dynamically adjusting your bitrate to accommodate fluctuating bandwidth availability.

Best Viewing Experience on Every Device By supporting Adobe's Dynamic Flash streaming protocol (RTMP), Apple's Adaptive HTTP Live Streaming (HLS) protocol and adaptive bitrate streaming (ABR), the KulaByte Mini gives your Internet audience the best possible live viewing experience, on every device, wherever they are.

Features

Benefits

Small form factor (SFF) appliance	High powered processing in a portable package
HEVC encoding/transcoding	High efficiency video compression over constrained networks for live events contribution
ABR H.264 encoding/transcoding	Seamless viewing experience at the player level with dynamic bitrate/resolution adjusting
SRT (Secure Reliable Transport)	AES encrypted, packet loss resilient live video transport from source encoder to cloud hosted transcoder
Extensive CDN Support	Ensure reliable streaming over Akamai, Limelight and other Adobe and Wowza based services
608/708 closed captioned	Support analog and digital television closed captioning standards

KULABYTE SYSTEMS

Available as fully integrated appliance or server and cloud deployable software

Linux-based, optimized for 64-bit computing and multicore processing

Validated CDNs:

- Akamai HD2 network qualified Limelight (StreamAnywhere and MMDLive)
- CDN providers using Adobe Media Server (AMS)
- CDN providers using Wowza server (with or without secure URL param authentication) and more

Video Encoding

Compression Standard:

- H.264
- HEVC/H.265

Profiles:

- H.264: High, Main, Baseline
- HEVC: Main

Bit Rates:

- up to 10 Mbps

Rate Control:

- CBR

Video Sampling:

- up to 4:2:2

Audio Encoding

Compression Standard:

- AAC-LC/HE

Bit Rates:

- up to 512 Kbps

KULABYTE MINI H.264 & HEVC SD/HD ENCODING/TRANSCODING APPLIANCE

Video Input:

- 1 Baseband HD-SDI capture up to 1080p30 with embedded audio

- 1 IP H.264 or HEVC input support up to 1080p60

Stream Outputs:

- HEVC: SRT/M2TS Up to one 720p60 encode
- H.264: Up to three SRT/M2TS 1080p30 encodes or one RTMP/HLS 1080p30 ABR cascade encode (1080p, 720p, 480p, 360p, 270p, 180p)

Dimensions:

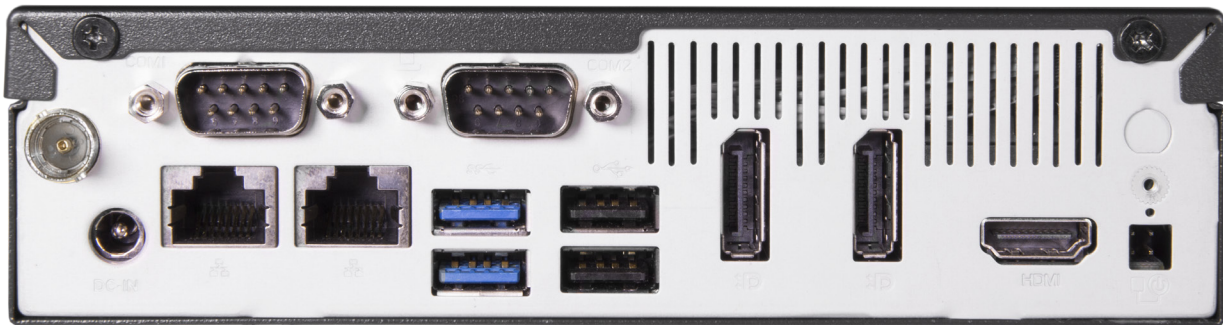
- 43mm H x 165mm W x 190mm D (1.69" H x 6.49" W x 7.48" D)

Weight:

- 4.52 lbs / 2.1 kg

Power:

- 1x External 90W fanless power adapter



KulaByte Mini

KulaByte-Mini Ordering Information**

KulaByte Mini H.264 & HEVC SD/HD Encoding/Transcoding Appliance

S-KB-SFF-1.

** For complete pricing and ordering, contact us at sales@haivision.com or your certified Haivision reseller.